



The success story: to be continued

A centrifuge at full speed

Centrifuges 5417C and 5417R

Two tried and trusted models: In many globally successful biotechnology companies, the Centrifuges **5417C** and **5417R** (refrigerated version) were already present at the beginnings as part of the start-up laboratory equipment. And nowadays they are still successfully doing their jobs.

Reason enough for Eppendorf to bring the accessory and rotor program of these microliter centrifuges right up to date. The increasing range of applications will be fully covered, now and in the future. For current users and for today's start-up companies.

Exceptionally short centrifuge times can be achieved e.g. for Eppendorf reaction tubes with a relative centrifugal acceleration of 25,000 x g in the fixed-angle rotor. The PCR strip rotor enables the centrifugation of 8-tube and 5-tube strips. And, as before, Eppendorf supplies a swing-bucket rotor for 1.5/2 ml reaction tubes and a 30-position fixed-angle rotor. The new robust and high-temperature resistant aluminum lid and the optimized rotor detection ring means that the aerosol-tight version can be autoclaved in its entirety for up to 2 h at 140 °C to eliminate even prion contamination.



Easy operation

- Embossed foil keypad for simple operation
- Fast Cool function: from room temperature to 4 °C in approx. 15 min*
- Short-spin function with preselected rotational speed
- rpm or rcf settings as required (from 500 rpm in steps of 100 rpm)
- Timer up to 99 min or continuous run
- Soft key for gentle acceleration and deceleration
- Temperature settings from -8 to 40 °C*
- Sample temperature <4 °C maintained at maximum speed*
- Automatic imbalance detection

* Only for the refrigerated centrifuge 5417R.



Swing-bucket rotor

- 6 positions for 1.5/2 ml tubes
- Max. rotational speed: 10,000 rpm (max. rcf: 10,600 x g)
- Rotor, rotor lid, and adapters are autoclavable at 121 °C for 20 min
- Pellet formation at the base of the tubes with small samples
- Adapters for fixed-angle rotor can be used

All-round comfort

The easy-to-read display and the practical soft keypad on both models enable simple and self-explanatory programming of all operating modes. With short acceleration and braking times at max. rcf and large capacities, the Centrifuges 5417 C and 5417 R cope even with high sample throughput in style.

The Fast Cool function cools the 5417 R rapidly down to 4 °C, which is also maintained during centrifugation at maximum rotational speed.

Afterwards, with standby cooling, the centrifuge remains at the required temperature.

It's no surprise, therefore, that the choice of many biological and medical laboratories, not just startup companies, falls to these two Eppendorf centrifuges, which have proven themselves in practical use.

Fixed-angle rotors

- Adapter for 0.2 ml PCR tubes, 0.4 ml centrifuge tubes, 0.5 ml micro test tubes and 0.6 ml Microtainer®
- Max. rotational speed: 16,400 rpm (max. rcf: 25,000 x g)
- Aerosol-tight centrifugation with the rotors FA-45-24-11 and FA-45-30-11*
- Rotor, rotor lids, and adapters are autoclavable (20 min, 121 °C), the rotors FA-45-24-11 and FA-45-30-11 with lid can be autoclaved for 2 h at 140 °C to eliminate prion contamination
- Acceleration/deceleration <11 s (FA-45-30-11 to/from max. rotational speed)



PCR strip rotor

- Max. rotational speed 10,000 rpm (max. rcf: 10,600 x g)
- For up to 6 x 8-tube strips, 6 x 5-tube strips or 48 x 0.2 ml PCR single tubes
- Safe and easy handling without additional lid

All Eppendorf rotors can be identified according to a simple, logical system which describes the technical specifications as a uniform series of numbers and letters e.g.:

Fixed-angle rotor	Angle of adapter bore	∅ Tube/ adapter bore
FA-45-30-11		
Aerosol-tight version		Max. no. tubes/adapters

Swing-bucket rotor	∅ Tube/ adapter bore
A-4-81	
	Max. no. buckets

* Aerosol-tightness has been tested and approved in accordance with the procedure of Bennett et al. from the Centre for Applied Microbiology & Research in Porton Down, CAMR, Great Britain, and according to annex AA of the IEC 1010-2-020 safety standard. The test procedure simulates the accidental release of biological material (bacterial) inside the closed rotor or closed rectangular bucket. Air and swab samples are taken to ensure that no material is released from the closed rectangular buckets or closed rotor during operation.

® Registered trademark of Becton Dickinson.

Rotors for Centrifuges 5417 C and 5417 R

Rotor models and accessories	Max. rotational speed (rpm)	Max. rcf (x g)	Order no.
F-45-30-11			
Fixed-angle rotor 30 x 1.5/2 ml incl. aluminum lid	14,000	20,800	5490 015.002
FA-45-30-11			
Fixed-angle rotor 30 x 1.5/2 ml incl. aluminum lid, aerosol-tight	14,000	20,800	5490 025.008
FA-45-24-11**			
Fixed-angle rotor 24 x 1.5/2 ml incl. aluminum lid, aerosol-tight	16,400	25,000	5490 010.000
Adapter for all fixed-angle rotors for PCR and reaction tubes			
Tube size	Diameter of adapter bore (mm)	Order no. (set of 6 adapters)	
0.2 ml PCR tubes	6	5425 715.005	
0.4 ml centrifuge tubes	6	5425 717.006	
0.5-0.6 ml reaction tubes and Microtainer*	8	5425 716.001	
A-8-11			
Swing-bucket rotor 8 x 1.5/2 ml incl. aluminum lid	10,000	10,600	5492 008.003
F-45-48-PCR			
Fixed-angle rotor for 6 x 8-tube strips, 6 x 5-tube strips or 48 x 0.2 ml PCR tubes	10,000	10,600	5490 060.008

* Can only be used in newer Centrifuges 5417 C (European order no. 5417 000.315) and 5417 R (European order no. 5407 000.317).

Centrifuges 5417 C and 5417 R

Technical data				
Article	Centrifuge 5417 C		Centrifuge 5417 R (refrigerated version)	
Dimensions (W x D x H in cm):	32 x 43 x 23		31 x 60 x 25	
Weight (in kg):	17		35	
Max. power requirement:	400 W		700 W	
Power supply:	230 V/50 Hz		230 V/50 Hz	
Ordering information				
Power supply	230 V/50 Hz Europe	230 V/50 Hz England	230 V/50 Hz Australia	230 V/50 Hz Switzerland
Centrifuge 5417 C	5417 000.315	5417 000.366	5417 000.382	5417 000.374
Centrifuge 5417 R	5407 000.317	5407 000.368	5407 000.384	5407 000.376

The various power connection versions have the same power characteristics; they only differ in the connection cable supplied.

C&M SCIENTIFIC

Unit 4, Lindsay Square, Deans Industrial Estate, Livingston, West Lothian, EH54 8RL

Tel: 08452 608 601

Fax: 08452 608 602

www.cmscientific.co.uk